Statement

Rate of Central Subsidy applicable for wind energy systems

System	Central Subsidy (in Rupees)				
	1996-97	1997-98	1998-99	1999-2000	2000-01
Water pumping windmill					
(a) modified 12 PU 500	16,000	16,000	20,000	20,000	20,000
(b) geared type	28,000	28,000	30,000	30,000	30,000
(c) AV 55 Auroville Small Aerogenerator	32,000	32,000	45,000	45,000	45,000
(a) community application, direct use by Central/State Govt. Defence, Paramilitary.	80% of ex-works cost of the system (including for R and D and academic institutions).	80% of ex-works cost Subject to a maximum of Rs. 2.0 lakh per KW (including for R and D and academic institutions).	80% of ex-works cost Subject to a maximum of Rs. 2.0 lakh per KW	80% of ex-works cost Subject to a maximum of Rs. 2.0 lakh per KW	80% of ex-works cost Subject to a maximum of Rs. 2.0 lakh per KW
(b) individuals, industrial users, R and D and academic Institutions.	Nil	50% of ex-works cost subject to a maximum of Rs. 1.25 lakh per KW	50% of ex-works cost subject to a maximum of Rs. 1.25 lakh per KW	50% of ex-works cost subject to a maximum of Rs. 1.25 lakh per KW	50% of ex-works cost subject to a maximum of Rs. 1.25 lakh per KW

Approval of Non-conventional Energy Sources Projcets

1762. SHRI RAMDAS AGARWAL: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the details of projects of Non-Conventional Energy Sources submitted or approved during 2000-2001, till date;

(b) the total amount spent in this Sector during the last three years, year-wise till date;

(c) the details of future plans for tapping of Non-Conventional Energy Sources, State-wise, and budgetary allocations likely to be made during 2001-2002; and

(d) whether Government have so far formulated any Renewable Energy Policy if so, the salient features thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) and (b) The details of various Non-conventional Energy systems/devices sanctioned/ installed during the year 2000-2001 is given in Statement I (*See* below). The Ministry spent Rs. 293.61 crores, Rs. 312.87 crores and Rs. 340.83 crores during the last three years *i.e.* 1998-99, 1999-2000 and 2000-2001, respectively as financial and promotional incentives for promotion, development and utilization of various Non-conventional Energy Sources in the country.

(c) The details of programme-wise targets proposed for tapping various non-conventional energy sources for the country as a whole during the year 2001-2002 is given in Statement II (*See* below). The Ministry does not fix State-wise targets except for biogas, improved chulha and solar photovoltaic programmes. The details of State-wise physical targets fixed and estimated financial assistance proposed under these programmes for the years 2001-2002 is given in Statement III (*See* below).

(d) The Ministry has formulated a draft Renewable Energy Policy Statement. The main objectives of the draft Policy Statement are to enhance the contribution of renewables, *viz* solar, wind, biomass and small hydro for meeting minimum rural energy needs, providing decentralized/off grid supply for agriculture, industry, commercial and household sectors in rural and urban areas, and grid quality power generation and supply. The draft Policy Statement also envisages a contribution of 10% of the power capacity addition in the country till the year 2012 to come from renewables.

Statement-I

Programme-wise details of various Non-Conventional Energy Systems/ Devices sanctioned/installed during 2000-2001

Programmes	Units	Systems/Devices Sanctioned/Installed during 2000-2001
Biogas Plants	Nos. in lakhs	1.71
Community/Institutional/Night Soil based Biogas	Nos.	412
Improved chulha	Nos. in lakhs	16.45
Biomass/Gasifier	MW	5.82
Integrated Rural Energy Programme	Blocks Nos.	860
Energy Parks	Nos.	46
Solar Photovoltaic Programme (SPV)		
SPV Home Light	Nos.	35405
SPV Lanterns	Nos.	72199
SPV Street Lighting Systems	Nos	2487
SPV Power Plants	kWp	208
SPV Pumps	Nos.	853
Solat Thermal Energy Programme		
Solar water Heating Sys.	m2 collector area	36665
Solar Cooker	Nos.	18000
Wind Pumps & Hybrid Syst.	Nos.	77
	KW	16.5
Wind power	MW	173
Small Hydro (upto 25 MW)	MW	89.1
Biomass Power	MW	70.3
SPV Power	kW	375
Waste to Energy Programme	MW	1

MW-Mega Watt; kWp-Kilo Watt Peak; kW-Kilo Watt; m^2-Meter Square

Statement-II

Programme-wise details of Physical Targets proposed under Non-Conventional Energy Programmes during 2001-02

Programmes	Units	Physical Targets fixed for 2001-02
Biogas Plants	Nos. in lakhs	1.8
Community/Institutional/Night Soil based Biogas	Nos.	400
Improved chulha	Nos. in lakhs	20
Biomass/Gasifier	MW	7
Integrated Rural Energy Programme	Blocks Nos.	860
Energy Parks	Nos.	40
Solar Photovoltaic Programme (SPV)		
SPV Home Light	Nos.	35000
SPV Lanterns	Nos.	85000
SPV Street Lighting Systems	Nos.	3000
SPV Power Plants	kWp	220
SPV Pumps	Nos.	800
Solar Thermal Energy Programme		
Solar water Heating Sys.	m^2 collector area	40000
Solar Cooker	Nos.	25000
Wind Pumps & Hybrid Syst.	Nos.	200
	KW	125
Wind power	MW	200
Small Hydro (upto 25 MW)	MW	30
Biomass Power	MW	80
SPV Power	KW	300
Waste to Energy Programme	MW	10

MW-Megawatt; kWp-Killo Watt Peak; kW-Killo Watt; m^2-Meter Square

Statement-III

State-wise Physical Targets fixed and estimated financial assistance proposed during 2001-02

Sl.No.	States/UT	Family-size Biogas plants		CBP/IBP/NBP*		Improved Chulha		Solar Photovoltaic Programme			
		Physical	Financial	Physical	Financial	Physical	Financial	Physical			Financial
								SL	HLS	SLS	
		No.s	(Rs. in crore)	Nos.	(Rs in crore)	Nos.	(Rs in crore)	Nos.	Nos.	Nos.	(Rs. in crore)
1.	Andhra Pradesh	22400	7.20	1.00	0.01	175000	1.75	10000	100	100	1.57
2.	Arunachal Pradesh	0	0.00	1.00	0.02	0	0.00	0	0	0	0.00
3.	Assam	250	0.31	2.00	0.11	12500	0.00	0	0	0	0.00
4.	Bihar	500	0.15	1.00	0.01	6000	0.00	8000	1000	200	1.91
5.	Chhatisgarh	1600	0.49			15000	0.15	400	100	50	0.17
6.	Goa	100	0.03			4000	0.04	300	10	50	0.10
7.	Gujarat	7000	2.13	10.00	0.11	105000	0.75	5000	1000	50	1.32
8.	Haryana	2000	0.61			60000	0.60	5000	3500	100	2.80
9.	Himachal Pradesh	550	0.17			1000	0.02	1200	1000	150	0.90
10.	Jammu and Kashmir	100	0.19			30000	0.05	2750	3500	0	2.38
11.	Jharkhand	1000	0.30			16000	0.16	0	0	0	0.00
12.	Karnataka	30000	9.15			60000	0.50	2000	1000	300	7.18
13.	Kerala	2000	0.61	15.00	0.37	40000	0.40	2000	3000	200	2.21
14.	Madhya Pradesh	10000	3.05	2.00	0.02	1500	0.01	700	200	50	0.27
15.	Maharashtra	10000	3.05	35.00	0.57	86000	0.86	1500	180	100	0.42
16.	Manipur	250	0.31	1.00	0.02	5000	0.15	0	0	0	0.00
17.	Meghalaya	200	0.25	2.00	0.05	5000	0.00	0	0	0	0.00
18.	Mizoram	500	0.62			5000	0.15	0	0	0	0.00
19.	Nagaland	500	0.62	5.00	0.15	5000	0.15	0	0	0	0.00
20.	Orissa	13000	3.96	7.00	0.15	200000	2.00	2000	1000	300	1.18

21.	Punjab	10000	3.05	50.00	1.00	35000	0.35	1500	250	200	0.57
22.	Rajasthan	1000	0.31	5.00	0.10	30000	0.00	0	6000	100	3.53
23.	Sikkim	250	0.31			5000	0.15	0	0	0	0.00
24.	Tamil Nadu	2000	0.61	8.00	0.08	60000	0.60	4500	400	150	1.02
25.	Tripura	300	0.38			18000	0.54	0	0	0	0.00
26.	Uttar Pradesh	9500	2.90	50.00	0.50	150000	1.00	10000	5000	250	4.52
27.	Uttranchal	1000	0.31			2000	0.02	4500	2000	0	1.77
28.	West Bengal	15000	4.58	5.00	0.10	325000	1.75	250	2500	50	1.51
29.	Andaman & Nichobar	0	0.00			1200	0.00	0	0	0	0.00
30.	Chandigarh	0	0.00			0	0.00	300	50	0	0.07
31.	Dadar & Nagar Haveli	0	0.00			500	0.00	0	0	0	0.00
32.	Daman & Diu	0	0.00			0	0.00	0	0.00	0	0.00
33.	Delhi	0	0.00	10.00	0.22	2000	0.02	0	0	0	0.00
34.	Lakshwadeep	0	0.00			300	0.00	2000	0	50	0.33
35.	Pondicherry	0	0.00			4000	0.04	100	10	50	0.07
36.	Others	39000	13.74	190.00	2.40	285000	2.85	15000	2200	0	3.29
	TOTAL	**180000**	**59.39**	**400.00**	**5.99**	**1750000**	**15.06**	**79000**	**34000**	**2500**	**33.09**

CBP/IBP/NBP|Community, Institutional and Night-soil based Biogas Plants
SL-Solar Lanterns; HLS-Home Lighting Systems; SLS-Street Lighting Systems